

Dialog 10/031,410  
LLM 2/26/2006

Trying 31060000009999...Open

DIALOG INFORMATION SERVICES

PLEASE LOGON:

\*\*\*\*\* HHHHHHHH SSSSSSSS? ### Status: Signing onto Dialog \*\*\*\*\*

ENTER PASSWORD:

\*\*\*\*\* HHHHHHHH SSSSSSSS? \*\*\*\*\*

Password incorrect

DIALOG INFORMATION SERVICES

PLEASE LOGON:

\*\*\*\*\* HHHHHHHH SSSSSSSS? ### Status: Login failed

You are now logged off

Connection stopped

You are now logged offTrying 31060000009999...Open

DIALOG INFORMATION SERVICES

PLEASE LOGON:

\*\*\*\*\* HHHHHHHH SSSSSSSS? ### Status: Signing onto Dialog \*\*\*\*\*

ENTER PASSWORD:

\*\*\*\*\* HHHHHHHH SSSSSSSS? \*\*\*\*\*

### Status: Login successfulWelcome to DIALOG

Dialog level 05.10.03D

Last logoff: 23feb06 14:26:38

Logon file405 26feb06 14:52:13

\*\*\* ANNOUNCEMENT \*\*\*  
\*\*\*

NEW FILES RELEASED

\*\*\*Index Chemicus (File 302)

\*\*\*Inspec (File 202)

\*\*\*Physical Education Index (File 138)

\*\*\*

RELOADS COMPLETED

\*\*\* The 2005 reload of the CLAIMS files (Files 340, 341, 942)  
is now available online.

RESUMED UPDATING

\*\*\*ERIC (File 1)

\*\*\*

Chemical Structure Searching now available in Prous Science Drug  
Data Report (F452), Prous Science Drugs of the Future (F453),  
IMS R&D Focus (F445/955), Pharmaprojects (F128/928), Beilstein  
Facts (F390), Derwent Chemistry Resource (F355) and Index Chemicus  
(File 302).

\*\*\*

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<  
>>> of new databases, price changes, etc. <<<

\*\*\*\*

\* \* \*

SYSTEM:HOME

Cost is in DialUnits

Menu System II: D2 version 1.7.9 term=ASCII

\*\*\* DIALOG HOMEBASE(SM) Main Menu \*\*\*

Information:

1. Announcements (new files, reloads, etc.)
2. Database, Rates, & Command Descriptions
3. Help in Choosing Databases for Your Topic
4. Customer Services (telephone assistance, training, seminars, etc.)

## 5. Product Descriptions

### Connections:

6. DIALOG(R) Document Delivery
7. Data Star(R)

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/H = Help                      /L = Logoff                      /NOMENU = Command Mode

Enter an option number to view information or to connect to an online service. Enter a BEGIN command plus a file number to search a database (e.g., B1 for ERIC).

?

Terminal set to DLINK

\*\*\* DIALOG HOMEBASE(SM) Main Menu \*\*\*

### Information:

1. Announcements (new files, reloads, etc.)
2. Database, Rates, & Command Descriptions
3. Help in Choosing Databases for Your Topic
4. Customer Services (telephone assistance, training, seminars, etc.)
5. Product Descriptions

### Connections:

6. DIALOG(R) Document Delivery
7. Data Star(R)

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/H = Help                      /L = Logoff                      /NOMENU = Command Mode

Enter an option number to view information or to connect to an online service. Enter a BEGIN command plus a file number to search a database (e.g., B1 for ERIC).

? b biosci

```
>>>          44 is unauthorized
>>>          76 is unauthorized
>>>2 of the specified files are not available
    26feb06 14:52:17 User276741 Session D102.1
    $0.00    0.214 DialUnits FileHomeBase
    $0.00 Estimated cost FileHomeBase
    $0.02 TELNET
    $0.02 Estimated cost this search
    $0.02 Estimated total session cost    0.214 DialUnits
```

### SYSTEM:OS - DIALOG OneSearch

- File 5:Biosis Previews(R) 1969-2006/Feb W3
  - (c) 2006 BIOSIS
- File 24:CSA Life Sciences Abstracts 1966-2006/Jan
  - (c) 2006 CSA.
- File 28:Oceanic Abstracts 1966-2006/Jan
  - (c) 2006 CSA.
- File 34:SciSearch(R) Cited Ref Sci 1990-2006/Feb W3
  - (c) 2006 Inst for Sci Info
- File 35:Dissertation Abs Online 1861-2006/Feb
  - (c) 2006 ProQuest Info&Learning

File 40:Enviroline(R) 1975-2005/Dec  
 File 41:Pollution Abstracts 1966-2006/Jan  
     (c) 2006 CSA.  
 File 50:CAB Abstracts 1972-2005/Dec  
     (c) 2006 CAB International  
 File 65:Inside Conferences 1993-2006/Feb W3  
     (c) 2006 BLDSC all rts. reserv.  
 File 71:ELSEVIER BIOBASE 1994-2006/Feb W3  
     (c) 2006 Elsevier Science B.V.  
 File 73:EMBASE 1974-2006/Feb 24  
     (c) 2006 Elsevier Science B.V.  
 File 91:MANTIS(TM) 1880-2006/Feb  
     2006 (c) Action Potential  
 File 94:JICST-EPlus 1985-2006/Nov W4  
     (c)2006 Japan Science and Tech Corp(JST)  
 File 98:General Sci Abs 1984-2004/Dec  
     (c) 2005 The HW Wilson Co.  
 File 110:WasteInfo 1974-2002/Jul  
     (c) 2002 AEA Techn Env.  
**\*File 110: This file is closed (no updates)**  
 File 135:NewsRx Weekly Reports 1995-2006/Feb W3  
     (c) 2006 NewsRx  
**\*File 135: Please see HELP NEWS135 for information on select**  
**journal titles.**  
 File 136:BioEngineering Abstracts 1966-2006/Jan  
     (c) 2006 CSA.  
 File 143:Biol. & Agric. Index 1983-2006/Jan  
     (c) 2006 The HW Wilson Co  
 File 144:Pascal 1973-2006/Jan W5  
     (c) 2006 INIST/CNRS  
 File 155:MEDLINE(R) 1951-2006/Feb 27  
     (c) format only 2006 Dialog  
**\*File 155: Medline has resumed updating.**  
 File 164:Allied & Complementary Medicine 1984-2006/Feb  
     (c) 2006 BLHCIS  
 File 172:EMBASE Alert 2006/Feb 24  
     (c) 2006 Elsevier Science B.V.  
 File 185:Zoological Record Online(R) 1978-2006/Feb  
     (c) 2006 BIOSIS  
 File 357:Derwent Biotech Res. \_1982-2006/Feb W3  
     (c) 2006 Thomson Derwent & ISI  
 File 369:New Scientist 1994-2006/Aug W4  
     (c) 2006 Reed Business Information Ltd.  
 File 370:Science 1996-1999/Jul W3  
     (c) 1999 AAAS  
**\*File 370: This file is closed (no updates). Use File 47 for more current**  
**information.**  
 File 391:Beilstein Reactions 2005/Q3  
     (c) 2005 Beilstein GmbH  
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
     (c) 1998 Inst for Sci Info  
 File 467:ExtraMED(tm) 2000/Dec  
     (c) 2001 Informania Ltd.  
**\*File 467: F467 will close on February 1, 2006.**

7.

Set	Items	Description
?	s	((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow (w) fiber (w) electrode) or (capillary (w) electrode)) and (fusion or electrofusion or (selective (w) electrofusion))
92780		HOLLOW

475441 ELECTRODE  
     116 HOLLOW(W)ELECTRODE  
     92780 HOLLOW  
     42474 MICROELECTRODE  
         0 HOLLOW(W)MICROELECTRODE  
     92780 HOLLOW  
     858201 FIBER  
     475441 ELECTRODE  
         5 HOLLOW(W)FIBER(W)ELECTRODE  
     457552 CAPILLARY  
     475441 ELECTRODE  
         157 CAPILLARY(W)ELECTRODE  
     793690 FUSION  
         5773 ELECTROFUSION  
     1638159 SELECTIVE  
         5773 ELECTROFUSION  
             5 SELECTIVE(W)ELECTROFUSION  
 S1        3 ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR  
             (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W)  
             ELECTRODE)) AND (FUSION OR ELECTROFUSION OR (SELECTIVE  
             (W) ELECTROFUSION))  
 ? s s1 and (cell or liposome or proteoliposome or protoplast or (plant (w)  
 protoplast) or vesicle or egg or sperm or hybridoma)  
         3 S1  
     13734914 CELL  
         90092 LIPOSOME  
         2666 PROTEOLIPOSOME  
         49696 PROTOPLAST  
     4794803 PLANT  
         49696 PROTOPLAST  
         819 PLANT(W)PROTOPLAST  
     184839 VESICLE  
     530554 EGG  
     296752 SPERM  
     75348 HYBRIDOMA  
 S2        0 S1 AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST  
             OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR  
             HYBRIDOMA)  
 ? t s1/free/all

1/8/1      (Item 1 from file: 34)  
 DIALOG(R)File 34:(c) 2006 Inst for Sci Info. All rts. reserv.

07169976   Genuine Article#: 131BQ   Number of References: 8  
**Title: Low-pressure pseudospark switches for ICF pulsed power** (ABSTRACT  
     AVAILABLE)  
 Publication date: 19980921  
 Journal Subject Category: NUCLEAR SCIENCE & TECHNOLOGY; PHYSICS, PARTICLES  
     & FIELDS; INSTRUMENTS & INSTRUMENTATION; SPECTROSCOPY  
 Descriptors--Author Keywords: pulsed power systems ; plasma switches ; gas  
     discharge ; electrodes ; spectroscopy

1/8/2      (Item 1 from file: 94)  
 DIALOG(R)File 94:(c)2006 Japan Science and Tech Corp(JST). All rts.  
 reserv.

05323371   JICST ACCESSION NUMBER: 03A0012103   FILE SEGMENT: JICST-E  
**Characteristics of Hollow Cathode Arc as Heat Source. Application of Hollow  
     Cathode Arc to Welding of Aluminum Alloy., 2002**  
 DESCRIPTORS: welding electrode; TIG welding; welding heat input; welding

power source; aluminum base alloy; hollow body; thorium oxide; argon; pure metal; aluminum; oxide film; thermal plasma; electron temperature; centralization; melting; crater; penetration(welding); circular cone; space environment; case study; plasma column; basic research; welding torch; negative electrode; weld shielding gas; weld bead

BROADER DESCRIPTORS: electrode; inert gas shielded arc welding; gas shielded arc welding; arc welding; electric welding; welding; bonding and joining; **fusion** welding; welding condition; condition; electric power source equipment; equipment; light alloy; nonferrous alloy; alloy; metallic material; solid(cubic); metal oxide; oxide; chalcogenide; oxygen group element compound; oxygen compound; thorium compound; actinide compound; transition metal compound; rare gas; element; third row element; metal; metallic element; 3B group element; conversion coating film; film(cover); membrane and film; plasma; plasma temperature; temperature; plasma parameter; parameter; modification; phase transition; morphology; cone; environment; research; torch; protective gas; gas; atmosphere(environment); welding material; weld metal; weld zone; joint(part); part

CLASSIFICATION CODE(S): WC07110T; WC07030G

1/8/3 (Item 2 from file: 94)

DIALOG(R) File 94:(c)2006 Japan Science and Tech Corp(JST). All rts. reserv.

02090005 JICST ACCESSION NUMBER: 94A0781129 FILE SEGMENT: JICST-E

**Electrode Lifetimes in a Plasma Focus Soft X-Ray Source.**, 1994

DESCRIPTORS: electrode; erosion(wear); plasma focus; X-ray source; soft X-ray; lifetime; polarity; insulating material; plasma focus device

BROADER DESCRIPTORS: erosion(corrosion); corrosion; radiation source; X-ray; electromagnetic wave; wave motion; radioactive ray; property; material; nuclear **fusion** device; plasma device; equipment

CLASSIFICATION CODE(S): BJ02082I

? s ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow (w) fiber (w) electrode) or (capillary (w) electrode))

92780 HOLLOW

475441 ELECTRODE

116 HOLLOW(W)ELECTRODE

92780 HOLLOW

42474 MICROELECTRODE

0 HOLLOW(W)MICROELECTRODE

92780 HOLLOW

858201 FIBER

475441 ELECTRODE

5 HOLLOW(W) FIBER (W) ELECTRODE

457552 CAPILLARY

475441 ELECTRODE

157 CAPILLARY(W)ELECTRODE

S3 278 ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE))

? s s3 and (cell or liposome or proteoliposome or protoplast or (plant (w) protoplast) or vesicle or egg or sperm or hybridoma)

Processing

278 S3

13734914 CELL

90092 LIPOSOME

2666 PROTEOLIPOSOME

49696 PROTOPLAST

4794803 PLANT

49696 PROTOPLAST

```

      819  PLANT(W) PROTOPLAST
    184839 VESICLE
    530554 EGG
    296752 SPERM
      75348 HYBRIDOMA
S4      49  S3 AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST
          OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR
          HYBRIDOMA)
? s s4 not pd>990730
>>>File 24 processing for PD=990730 : PD=|
>>>  started at PD=19990731 stopped at PD=20050409
>>>File 34 processing for PD=990730 : PD=|
>>>  started at PD=19990731 stopped at PD=20041230
>>>One or more prefixes are unsupported
>>> or undefined in one or more files.
>>>File 71 processing for PD=990730 : PD=|
>>>  started at PD=000000 stopped at PD=050607
>>>File 73 processing for PD=990730 : PD=|
>>>  started at PD=000000 stopped at PD=050417
Processed 10 of 29 files ...
>>>File 135 processing for PD=990730 : PD=|
>>>  started at PD=19990809 stopped at PD=20060110
Processing
>>>File 144 processing for PD=990730 : PD=|
>>>  started at PD=199908 stopped at PD=2004060120040615
Completed processing all files
      49  S4
    15169500 PD>990730
S5      35  S4 NOT PD>990730
? rd

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.
S6      21  RD (unique items)
? s s6 and (fusion or electrofusion or (selective (w) electrofusion))
      21  S6
    793690 FUSION
    5773 ELECTROFUSION
    1638159 SELECTIVE
    5773 ELECTROFUSION
      5 SELECTIVE(W)ELECTROFUSION
S7      0  S6 AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W)
          ELECTROFUSION))
? s (fusion or electrofusion or (selective (w) electrofusion)) and (cell or
liposome or proteoliposome or protoplast or (plant (w) protoplast) or vesicle
or egg or sperm or hybridoma)
Processing
Processed 10 of 29 files ...
Processing
Completed processing all files
    793690 FUSION
    5773 ELECTROFUSION
    1638159 SELECTIVE
    5773 ELECTROFUSION
      5 SELECTIVE(W)ELECTROFUSION
    13734914 CELL
    90092 LIPOSOME
    2666 PROTEOLIPOSOME
    49696 PROTOPLAST
    4794803 PLANT

```

```

49696 PROTOPLAST
819 PLANT (W) PROTOPLAST
184839 VESICLE
530554 EGG
296752 SPERM
75348 HYBRIDOMA
S8 318537 (FUSION OR ELECTROFUSION OR (SELECTIVE (W)
ELECTROFUSION)) AND (CELL OR LIPOSOME OR PROTEOLIPOSOME
OR PROTOPLAST OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG
OR SPERM OR HYBRIDOMA)
? s s8 and ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow
(w) fiber (w) electrode) or (capillary (w) electrode))
318537 S8
92780 HOLLOW
475441 ELECTRODE
116 HOLLOW (W) ELECTRODE
92780 HOLLOW
42474 MICROELECTRODE
0 HOLLOW (W) MICROELECTRODE
92780 HOLLOW
858201 FIBER
475441 ELECTRODE
5 HOLLOW (W) FIBER (W) ELECTRODE
457552 CAPILLARY
475441 ELECTRODE
157 CAPILLARY (W) ELECTRODE
S9 0 S8 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W)
MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR
(CAPILLARY (W) ELECTRODE))
? s s8 and ( microelectrode)
318537 S8
42474 MICROELECTRODE
S10 165 S8 AND ( MICROELECTRODE)
? s s10 not pd>990730
>>>File 24 processing for PD=990730 : PD=|
>>> started at PD=19990731 stopped at PD=20050409
>>>File 34 processing for PD=990730 : PD=|
>>> started at PD=19990731 stopped at PD=20041230
>>>One or more prefixes are unsupported
>>> or undefined in one or more files.
>>>File 71 processing for PD=990730 : PD=|
>>> started at PD=000000 stopped at PD=050607
>>>File 73 processing for PD=990730 : PD=|
>>> started at PD=000000 stopped at PD=050417
>>>File 135 processing for PD=990730 : PD=|
>>> started at PD=19990809 stopped at PD=20060110
>>>File 144 processing for PD=990730 : PD=|
>>> started at PD=199908 stopped at PD=2004060120040615
Processed 10 of 29 files ...
Processing
Completed processing all files
165 S10
15169500 PD>990730
S11 119 S10 NOT PD>990730
? s s11 and hollow
119 S11
92780 HOLLOW
S12 0 S11 AND HOLLOW
? s s11 and capillary
119 S11
457552 CAPILLARY

```

S13 1 S11 AND CAPILLARY  
? t sl3/medium,

13/3/1 (Item 1 from file: 357)  
DIALOG(R)File 357:Derwent Biotech Res.  
(c) 2006 Thomson Derwent & ISI. All rts. reserv.

0024393 DBR Accession No.: 84-07668  
**Electrical induction of cell fusion of plant protoplasts - prepared  
from Rauwolfia serpentina Hordeum vulgare and Nicotiana tabacum  
(conference paper)**  
AUTHOR: Senda M; Morikawa H; Takeda J  
CORPORATE SOURCE: Department of Agricultural Chemistry, Kyoto University,  
Kyoto 606, Japan. (5 Meet., 615-16) 1982  
CODEN: 9999Z  
LANGUAGE: English  
? t sl3/medium,k

13/K/1 (Item 1 from file: 357)  
DIALOG(R)File 357:Derwent Biotech Res.  
(c) 2006 Thomson Derwent & ISI. All rts. reserv.

0024393 DBR Accession No.: 84-07668  
**Electrical induction of cell fusion of plant protoplasts - prepared  
from Rauwolfia serpentina Hordeum vulgare and Nicotiana tabacum  
(conference paper)**  
AUTHOR: Senda M; Morikawa H; Takeda J  
CORPORATE SOURCE: Department of Agricultural Chemistry, Kyoto University,  
Kyoto 606, Japan. (5 Meet., 615-16) 1982  
CODEN: 9999Z  
LANGUAGE: English

**Electrical induction of cell fusion of plant protoplasts**  
ABSTRACT: The induction of **fusion** of protoplasts and animal cells using  
electric impulses will open up new aspects of, and become a new method  
in, **cell fusion**. Protoplasts were isolated from cultured cells of  
Rauwolfia serpentina var. Bentham and mesophyll cells of barley  
(Hordeum vulgare L., Gose Shikoku) and tobacco (Nicotiana tabacum var.  
Samsun) using **cell** wall-degrading enzymes. Using the **microelectrode**  
method, the tips of 2 glass **capillary** microelectrodes were brought  
close to the surface of 2 point-adhering protoplasts and an electrical

... of short duration was applied across the 2 microelectrodes. Using the  
parallel electrode method for **fusion** of a large number of  
protoplasts, the suspension was placed between 2 parallel platinum  
electrodes...

... switch to a capacitor, which was charged up and then discharged through  
the suspension. Electrical **fusion** is useful for studying **plant  
protoplast** and **cell** membrane surfaces. (2 ref)

DESCRIPTORS: Rauwolfia serpentina, barley, tobacco **protoplast** prep.,  
**electrical protoplast fusion** induction effect  
? s s8 and ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow  
(w) fiber (w) electrode) or (capillary (w) electrode) or (capillary (w)  
microelectrode))

318537 S8  
92780 HOLLOW  
475441 ELECTRODE  
116 HOLLOW(W)ELECTRODE  
92780 HOLLOW



```

42474 MICROELECTRODE
    0 HOLLOW(W)MICROELECTRODE
92780 HOLLOW
858201 FIBER
475441 ELECTRODE
    5 HOLLOW(W) FIBER(W) ELECTRODE
457552 CAPILLARY
475441 ELECTRODE
    157 CAPILLARY(W) ELECTRODE
457552 CAPILLARY
42474 MICROELECTRODE
    46 CAPILLARY(W)MICROELECTRODE
S14    0 S8 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W)
        MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR
        (CAPILLARY (W) ELECTRODE) OR (CAPILLARY (W)
        MICROELECTRODE))

```

? ds

Set	Items	Description
S1	3	((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR - (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE)) AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION- ))
S2	0	S1 AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST - OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR HYBRI- DOMA)
S3	278	((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR - (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE))
S4	49	S3 AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST - OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR HYBRI- DOMA)
S5	35	S4 NOT PD>990730
S6	21	RD (unique items)
S7	0	S6 AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROF- USION))
S8	318537	(FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION)) AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST OR (PL- ANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR HYBRIDOMA)
S9	0	S8 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRO- DE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELE- CTRODE))
S10	165	S8 AND ( MICROELECTRODE)
S11	119	S10 NOT PD>990730
S12	0	S11 AND HOLLOW
S13	1	S11 AND CAPILLARY
S14	0	S8 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRO- DE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELE- CTRODE) OR (CAPILLARY (W) MICROELECTRODE))
? s6 and microchip		
	13504177	6
	9779	MICROCHIP
S15	1244	6 AND MICROCHIP
? s s15 and ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow (w) fiber (w) electrode) or (capillary (w) electrode) or (capillary (w) microelectrode))		
	1244	S15
	92780	HOLLOW
	475441	ELECTRODE
	116	HOLLOW(W) ELECTRODE
	92780	HOLLOW
	42474	MICROELECTRODE

```

0 HOLLOW(W) MICROELECTRODE
92780 HOLLOW
858201 FIBER
475441 ELECTRODE
5 HOLLOW(W) FIBER(W) ELECTRODE
457552 CAPILLARY
475441 ELECTRODE
157 CAPILLARY(W) ELECTRODE
457552 CAPILLARY
42474 MICROELECTRODE
46 CAPILLARY(W) MICROELECTRODE
S16 0 S15 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W)
MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR
(CAPILLARY (W) ELECTRODE) OR (CAPILLARY (W)
MICROELECTRODE))
? s6 and (electroendoosmosis or electrophoresis or poiseuille)
13504177 6
15 ELECTROENDOOSMOSIS
982448 ELECTROPHORESIS
7175 POISEUILLE
S17 168458 6 AND (ELECTROENDOOSMOSIS OR ELECTROPHORESIS OR
POISEUILLE)
? s s6 and (electroendoosmosis or electrophoresis or poiseuille)
21 S6
15 ELECTROENDOOSMOSIS
982448 ELECTROPHORESIS
7175 POISEUILLE
S18 5 S6 AND (ELECTROENDOOSMOSIS OR ELECTROPHORESIS OR
POISEUILLE)
? rd

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.
S19 5 RD (unique items)
? s s19 and ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow
(w) fiber (w) electrode) or (capillary (w) electrode) or (capillary (w)
microelectrode))
5 S19
92780 HOLLOW
475441 ELECTRODE
116 HOLLOW(W) ELECTRODE
92780 HOLLOW
42474 MICROELECTRODE
0 HOLLOW(W) MICROELECTRODE
92780 HOLLOW
858201 FIBER
475441 ELECTRODE
5 HOLLOW(W) FIBER(W) ELECTRODE
457552 CAPILLARY
475441 ELECTRODE
157 CAPILLARY(W) ELECTRODE
457552 CAPILLARY
42474 MICROELECTRODE
46 CAPILLARY(W) MICROELECTRODE
S20 5 S19 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W)
MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR
(CAPILLARY (W) ELECTRODE) OR (CAPILLARY (W)
MICROELECTRODE))
? t s20/free/all

```

20/8/1 (Item 1 from file: 34)  
DIALOG(R)File 34:(c) 2006 Inst for Sci Info. All rts. reserv.

14164743 Genuine Article#: 945VL Number of References: 25  
**Title: Generation of focused electric field patterns at dielectric surfaces**  
(ABSTRACT AVAILABLE)  
Publication date: 20050715  
Journal Subject Category: CHEMISTRY, ANALYTICAL  
Identifiers--KeyWord Plus(R): SINGLE- **CELL** ELECTROPORATION; CAPILLARY-  
**ELECTROPHORESIS** ; MANIPULATION; BREAKDOWN; DNA; MEMBRANES; TISSUES;  
CHIP

20/8/2 (Item 2 from file: 34)  
DIALOG(R)File 34:(c) 2006 Inst for Sci Info. All rts. reserv.

05608475 Genuine Article#: WK383 Number of References: 21  
**Title: Integrated capillary electrophoresis /electrochemical detection**  
**with metal film electrodes directly deposited onto the capillary tip** (  
ABSTRACT AVAILABLE)  
Publication date: 19970301  
Journal Subject Category: CHEMISTRY, ANALYTICAL  
Identifiers--KeyWord Plus(R): PULSED AMPEROMETRIC DETECTION;  
ELECTROCHEMICAL DETECTION; ZONE **ELECTROPHORESIS** ; AMINO-ACIDS;  
MICROELECTRODE; GOLD

20/8/3 (Item 1 from file: 35)  
01354343 ORDER NO: AAD94-14275  
**DEVELOPMENT OF ELECTROCHEMICAL DETECTION SCHEMES FOR CAPILLARY**  
**ELECTROPHORESIS (AMPEROMETRIC DETECTOR)**  
Year: 1993

20/8/4 (Item 1 from file: 94)  
DIALOG(R)File 94:(c)2006 Japan Science and Tech Corp(JST). All rts.  
reserv.

05080493 JICST ACCESSION NUMBER: 02A0085598 FILE SEGMENT: JICST-E  
**A Handy Detection Cell for End-Column Electrochemical Detection in**  
**Capillary Electrophoresis . , 2001**  
DESCRIPTORS: capillary **electrophoresis** ; amperometric detector; hand-held  
type; disc electrode; voltage dependence; quantitative  
analysis(analytical chemistry); dynamic range; detection limit;  
measurement accuracy; microelectrode; routine analysis; **cell**  
structure; trace constituent; ketose; hexose; aldose; glucoside;  
pyranoside; furanoside; fructooligosaccharide; disaccharide; nitrogen  
heterocyclic compound; purine nucleoside; ribonucleoside; hydroxy  
compound; amino acid; aliphatic amine; aliphatic carboxylic acid;  
primary amine; phenolic compound; catecholamine; aminoalcohol; polyol;  
secondary amine; secondary alcohol; deoxyribonucleoside  
BROADER DESCRIPTORS: **electrophoresis** ; chromatographic detector; detector;  
portable type; type; electrode; dependence; analysis(separation);  
analysis; transmission characteristic; characteristic; limit;  
concentration(ratio); degree; accuracy; metal structure(microstructure)  
; organization; structure; minor component; component; reducing sugar;  
carbohydrate; glycoside; oligosaccharide; fructoside; heterocyclic  
compound; nucleoside; riboside; amine; carboxylic acid; aromatic  
compound; polyphenol; alcohol  
CLASSIFICATION CODE(S): CC02020S; CC04011M

20/8/5 (Item 1 from file: 155)

DIALOG(R)File 155:(c) format only 2006 Dialog. All rts. reserv.

14349793 PMID: 12175183

Capillary - electrode alignment by an optical-fiber connector for  
amperometric detection in capillary electrophoresis .

Aug 1 2002

Tags: Research Support, Non-U.S. Gov't

Descriptors: \*Electrophoresis, Capillary--instrumentation--IS;  
Catecholamines--analysis--AN; Electrochemistry; Electrodes; Electrophoresis  
s, Capillary--methods--MT; Equipment Design; Fiber Optics

CAS Registry No.: 0 (Catecholamines)

? s s20 and (fusion or electrofusion or (selective (w) electrofusion))

5 S20

793690 FUSION

5773 ELECTROFUSION

1638159 SELECTIVE

5773 ELECTROFUSION

5 SELECTIVE(W)ELECTROFUSION

S21 0 S20 AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W)  
ELECTROFUSION))

? ds

Set	Items	Description
S1	3	((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR - (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE)) AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION- ))
S2	0	S1 AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST - OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR HYBRI- DOMA)
S3	278	((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR - (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE))
S4	49	S3 AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST - OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR HYBRI- DOMA)
S5	35	S4 NOT PD>990730
S6	21	RD (unique items)
S7	0	S6 AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROF- USION))
S8	318537	(FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION)) AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST OR (PL- ANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR HYBRIDOMA)
S9	0	S8 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRO- DE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELE- CTRODE))
S10	165	S8 AND ( MICROELECTRODE)
S11	119	S10 NOT PD>990730
S12	0	S11 AND HOLLOW
S13	1	S11 AND CAPILLARY
S14	0	S8 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRO- DE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELE- CTRODE) OR (CAPILLARY (W) MICROELECTRODE))
S15	1244	6 AND MICROCHIP
S16	0	S15 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTR- ODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) EL- ECTRODE) OR (CAPILLARY (W) MICROELECTRODE))
S17	168458	6 AND (ELECTROENDOOSMOSIS OR ELECTROPHORESIS OR POISEUILLE)
S18	5	S6 AND (ELECTROENDOOSMOSIS OR ELECTROPHORESIS OR POISEUILL-

E)

S19 5 RD (unique items)

S20 5 S19 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE) OR (CAPILLARY (W) MICROELECTRODE))

S21 0 S20 AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION))

? s s6 and microchip

21 S6

9779 MICROCHIP

S22 0 S6 AND MICROCHIP

? s s6 and (electroporate or electroporation or dielectrophoretic or dielectrophoresis)

21 S6

151 ELECTROPORATE

35153 ELECTROPORATION

2188 DIELECTROPHORETIC

2396 DIELECTROPHORESIS

S23 1 S6 AND (ELECTROPORATE OR ELECTROPORATION OR DIELECTROPHORETIC OR DIELECTROPHORESIS)

? s s23 and (fusion or electrofusion or (selective (w) electrofusion))

1 S23

793690 FUSION

5773 ELECTROFUSION

1638159 SELECTIVE

5773 ELECTROFUSION

5 SELECTIVE (W) ELECTROFUSION

S24 0 S23 AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION))

? ds

Set	Items	Description
S1	3	((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE)) AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION))
S2	0	S1 AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR HYBRIDOMA)
S3	278	((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE))
S4	49	S3 AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR HYBRIDOMA)
S5	35	S4 NOT PD>990730
S6	21	RD (unique items)
S7	0	S6 AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION))
S8	318537	(FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION)) AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR HYBRIDOMA)
S9	0	S8 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE))
S10	165	S8 AND ( MICROELECTRODE)
S11	119	S10 NOT PD>990730
S12	0	S11 AND HOLLOW
S13	1	S11 AND CAPILLARY
S14	0	S8 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE) OR (CAPILLARY (W) MICROELECTRODE))

S15 1244 6 AND MICROCHIP  
 S16 0 S15 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE) OR (CAPILLARY (W) MICROELECTRODE))  
 S17 168458 6 AND (ELECTROENDOOSMOSIS OR ELECTROPHORESIS OR POISEUILLE)  
 S18 5 S6 AND (ELECTROENDOOSMOSIS OR ELECTROPHORESIS OR POISEUILLE)  
 S19 5 RD (unique items)  
 S20 5 S19 AND ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W) ELECTRODE) OR (CAPILLARY (W) MICROELECTRODE))  
 S21 0 S20 AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION))  
 S22 0 S6 AND MICROCHIP  
 S23 1 S6 AND (ELECTROPORATE OR ELECTROPORATION OR DIELECTROPHORETIC OR DIELECTROPHORESIS)  
 S24 0 S23 AND (FUSION OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION))

? save temp

Temp SearchSave "TD195080516" stored

? b 411

26feb06 15:10:45 User276741 Session D102.2  
 \$9.64 1.635 DialUnits File5  
 \$9.64 Estimated cost File5  
 \$3.33 0.537 DialUnits File24  
 \$3.33 Estimated cost File24  
 \$0.98 0.157 DialUnits File28  
 \$0.98 Estimated cost File28  
 \$54.03 2.302 DialUnits File34  
 \$0.00 3 Type(s) in Format 8  
 \$0.00 3 Types  
 \$54.03 Estimated cost File34  
 \$0.83 0.202 DialUnits File35  
 \$0.00 1 Type(s) in Format 6  
 \$0.00 1 Types  
 \$0.83 Estimated cost File35  
 \$1.01 0.142 DialUnits File40  
 \$1.01 Estimated cost File40  
 \$0.83 0.133 DialUnits File41  
 \$0.83 Estimated cost File41  
 \$3.76 0.818 DialUnits File50  
 \$3.76 Estimated cost File50  
 \$0.52 0.138 DialUnits File65  
 \$0.52 Estimated cost File65  
 \$7.92 0.900 DialUnits File71  
 \$7.92 Estimated cost File71  
 \$19.50 1.741 DialUnits File73  
 \$19.50 Estimated cost File73  
 \$0.41 0.095 DialUnits File91  
 \$0.41 Estimated cost File91  
 \$2.12 0.605 DialUnits File94  
 \$0.00 3 Type(s) in Format 8  
 \$0.00 3 Types  
 \$2.12 Estimated cost File94  
 \$1.23 0.288 DialUnits File98  
 \$1.23 Estimated cost File98  
 \$0.57 0.100 DialUnits File110  
 \$0.57 Estimated cost File110  
 \$1.14 0.211 DialUnits File135  
 \$1.14 Estimated cost File135  
 \$0.95 0.153 DialUnits File136

```

$0.95 Estimated cost File136
      $0.81 0.271 DialUnits File143
$0.81 Estimated cost File143
      $6.73 1.495 DialUnits File144
$6.73 Estimated cost File144
      $4.04 1.189 DialUnits File155
      $0.00 1 Type(s) in Format 8
      $0.00 1 Types
$4.04 Estimated cost File155
      $0.37 0.106 DialUnits File164
$0.37 Estimated cost File164
      $1.24 0.111 DialUnits File172
$1.24 Estimated cost File172
      $0.95 0.155 DialUnits File185
$0.95 Estimated cost File185
      $7.47 0.335 DialUnits File357
      $5.20 2 Type(s) in Format 3
      $5.20 2 Types
$12.67 Estimated cost File357
      $0.36 0.104 DialUnits File369
$0.36 Estimated cost File369
      $0.34 0.098 DialUnits File370
$0.34 Estimated cost File370
      $0.00 0.273 DialUnits File391
$0.00 Estimated cost File391
      $6.04 0.257 DialUnits File434
$6.04 Estimated cost File434
      $0.50 0.078 DialUnits File467
$0.50 Estimated cost File467
      OneSearch, 29 files, 14.628 DialUnits FileOS
$5.06 TELNET
$147.88 Estimated cost this search
$147.90 Estimated total session cost 14.843 DialUnits

```

File 411:DIALINDEX(R)

DIALINDEX(R)

(c) 2006 Dialog

```

*** DIALINDEX search results display in an abbreviated ***
*** format unless you enter the SET DETAIL ON command. ***
? s ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow (w)
fiber (w) electrode) or (capillary (w) electrode) or (capillary (w)
microelectrode)) and (fusion or electrofusion or (selective (w)
electrofusion))
>>>No files selected. Use SET FILES to choose at least two files; then use
      SELECT alone to reissue this SELECT statement.
? b allbiosci
>>>Invalid file or service name: ALLBIOSCI
>>>No valid files specified

```

DIALINDEX(R)

(c) 2006 Dialog

```

*** DIALINDEX search results display in an abbreviated ***
*** format unless you enter the SET DETAIL ON command. ***
? s ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow (w)
fiber (w) electrode) or (capillary (w) electrode) or (capillary (w)
microelectrode)) and (fusion or electrofusion or (selective (w)
electrofusion))
>>>No files selected. Use SET FILES to choose at least two files; then use

```

SELECT alone to reissue this SELECT statement.

? sf allbiosci

You have 81 files in your file list.

(To see banners, use SHOW FILES command)

? s ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow (w) fiber (w) electrode) or (capillary (w) electrode) or (capillary (w) microelectrode)) and (fusion or electrofusion or (selective (w) electrofusion))

Your SELECT statement is:

s ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow (w) fiber (w) electrode) or (capillary (w) electrode) or (capillary (w) microelectrode)) and (fusion or electrofusion or (selective (w) electrofusion))

Items	File
----	----
3	2: INSPEC_1898-2006/Feb W3
1	8: Ei Compendex(R)_1970-2006/Feb W2
1	34: SciSearch(R) Cited Ref Sci_1990-2006/Feb W3
2	94: JICST-EPlus_1985-2006/Nov W4
1	103: Energy SciTec_1974-2006/Jan B2
Examined	50 files
1	399: CA SEARCH(R)_1967-2006/UD=14409

6 files have one or more items; file list includes 81 files.

? b 2,8,34,94,103,399

26feb06 15:13:50 User276741 Session D102.3

\$5.29 1.996 DialUnits File411

\$5.29 Estimated cost File411

\$1.06 TELNET

\$6.35 Estimated cost this search

\$154.25 Estimated total session cost 16.839 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 2:INSPEC 1898-2006/Feb W3

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**\*File 2: Archive data back to 1898 has been added to File 2.**

File 8:Ei Compendex(R) 1970-2006/Feb W2

(c) 2006 Elsevier Eng. Info. Inc.

File 34:SciSearch(R) Cited Ref Sci 1990-2006/Feb W3

(c) 2006 Inst for Sci Info

File 94:JICST-EPlus 1985-2006/Nov W4

(c)2006 Japan Science and Tech Corp(JST)

File 103:Energy SciTec 1974-2006/Jan B2

(c) 2006 Contains copyrighted material

**\*File 103: For access restrictions see Help Restrict.**

File 399:CA SEARCH(R) 1967-2006/UD=14409

(c) 2006 American Chemical Society

**\*File 399: Use is subject to the terms of your user/customer agreement.**

IPCR/8 classification codes now searchable as IC=. See HELP NEWSIPCR.

Set	Items	Description
---	-----	-----

? s ((hollow (w) electrode) or (hollow (w) microelectrode) or (hollow (w) fiber (w) electrode) or (capillary (w) electrode) or (capillary (w) microelectrode)) and (fusion or electrofusion or (selective (w) electrofusion))

110793	HOLLOW
--------	--------



```

559701 ELECTRODE
  353 HOLLOW (W) ELECTRODE
110793 HOLLOW
 15261 MICROELECTRODE
    0 HOLLOW (W) MICROELECTRODE
110793 HOLLOW
917913 FIBER
559701 ELECTRODE
    8 HOLLOW (W) FIBER (W) ELECTRODE
221584 CAPILLARY
559701 ELECTRODE
    125 CAPILLARY (W) ELECTRODE
221584 CAPILLARY
  15261 MICROELECTRODE
    12 CAPILLARY (W) MICROELECTRODE
554293 FUSION
  1662 ELECTROFUSION
627631 SELECTIVE
  1662 ELECTROFUSION
    3 SELECTIVE (W) ELECTROFUSION
S1      9 ((HOLLOW (W) ELECTRODE) OR (HOLLOW (W) MICROELECTRODE) OR
        (HOLLOW (W) FIBER (W) ELECTRODE) OR (CAPILLARY (W)
        ELECTRODE) OR (CAPILLARY (W) MICROELECTRODE)) AND (FUSION
        OR ELECTROFUSION OR (SELECTIVE (W) ELECTROFUSION))
? s s1 and (cell or liposome or proteoliposome or protoplast or (plant (w)
protoplast) or vesicle or egg or sperm or hybridoma)
    9 S1
3572725 CELL
45789 LIPOSOME
  725 PROTEOLIPOSOME
15712 PROTOPLAST
2305640 PLANT
15712 PROTOPLAST
  482 PLANT (W) PROTOPLAST
59742 VESICLE
140027 EGG
80141 SPERM
15495 HYBRIDOMA
S2      0 S1 AND (CELL OR LIPOSOME OR PROTEOLIPOSOME OR PROTOPLAST
        OR (PLANT (W) PROTOPLAST) OR VESICLE OR EGG OR SPERM OR
        HYBRIDOMA)
? s s1 not pd>990730
>>>One or more prefixes are unsupported
>>> or undefined in one or more files.
>>>File 34 processing for PD=990730 : PD=|
>>> started at PD=19990731 stopped at PD=20041230
>>>File 103 processing for PD=990730 : PD=|
>>> started at PD=19990731 stopped at PD=20020805
    9 S1
5910192 PD>990730
S3      9 S1 NOT PD>990730
? rd
S4      7 RD (unique items)
? t s4/free/all
>>>"FREE" is not a valid format name in file(s): 399

```

**4/8/1 (Item 1 from file: 2)**

DIALOG(R) File 2:(c) 2006 Institution of Electrical Engineers. All rts.  
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07122474 INSPEC Abstract Number: A1999-03-5275-007, B1999-02-8370-023

**Title: Low-pressure pseudospark switches for ICF pulsed power**

Publication Date: 21 Sept. 1998

Document Number: S0168-9002(98)00403-3 Document Type: Conference Paper (PA); Journal Paper (JP)

Treatment: Experimental (X)

Descriptors: arcs (electric); ion accelerators; particle beam **fusion** accelerators; plasma inertial confinement; plasma switches; pulsed power switches

Identifiers: low-pressure pseudospark switches; ICF pulsed power; inertial confinement **fusion** pulsed power; ICF drivers; inertial confinement **fusion** drivers; high-current plasma switches; **hollow - electrode** pseudospark; cold cathode emission; charge-transfer capability; Marx modules; voltage adders; heavy ion ICF; 100 kV

Class Codes: A5275K (Plasma switches); A2921 (Beams in particle accelerators); A5280M (Arcs and sparks); B8370 (Switchgear); B2315 (Gas discharges); B7410B (Particle beam handling and diagnostics); B2180B (Relays and switches)

Numerical Indexing: voltage 1.0E+05 V

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**4/8/2 (Item 2 from file: 2)**

DIALOG(R)File 2:(c) 2006 Institution of Electrical Engineers. All rts. reserv.

03894677 INSPEC Abstract Number: A87069434

**Title: Preliminary results of the POSEIDON plasma focus in the operating regime above 300 kJ**

Publication Date: 1986

Document Type: Conference Paper (PA)

Treatment: Experimental (X)

Descriptors: neutron sources; pinch effect; plasma diagnostic techniques; plasma diagnostics; plasma focus; plasma sheaths

Identifiers: spatial structure; POSEIDON plasma focus; efficiency; neutron source; **fusion** reaction mechanisms; temporal structure; operating regime; focus discharge characteristics; geometrical parameters; optical monitoring; sheath velocity; integrated X-ray pinhole pictures; interferometric measurements; pinch diameter; neutron measurements; pinch lifetime; 60 to 80 kV; 280 to 500 kJ; 131 to 208 mm

Class Codes: A5255E (Pinch effect and pinch machines); A5270K (Optical (ultraviolet, visible, infrared) techniques); A5270N (Particle techniques); A5275 (Plasma devices and applications)

Numerical Indexing: voltage 6.0E+04 to 8.0E+04 V; energy 2.8E+05 to 5.0E+05 J; wavelength 1.31E-01 to 2.08E-01 m

**4/8/3 (Item 3 from file: 2)**

DIALOG(R)File 2:(c) 2006 Institution of Electrical Engineers. All rts. reserv.

01784273 INSPEC Abstract Number: B75027587

**Title: Investigation of some technological properties of a vacuum arc with a hollow nonconsumable electrode**

Publication Date: 1974

Document Type: Journal Paper (JP)

Treatment: Experimental (X)

Descriptors: arc welding

Identifiers: technological properties; vacuum arc; hollow nonconsumable electrode; arc discharge; welding

Class Codes: B8620 (Manufacturing industries)

4/8/4 (Item 1 from file: 94)

DIALOG(R)File 94:(c)2006 Japan Science and Tech Corp(JST). All rts.  
reserv.

05323371 JICST ACCESSION NUMBER: 03A0012103 FILE SEGMENT: JICST-E  
**Characteristics of Hollow Cathode Arc as Heat Source. Application of Hollow  
Cathode Arc to Welding of Aluminum Alloy., 2002**

DESCRIPTORS: welding electrode; TIG welding; welding heat input; welding  
power source; aluminum base alloy; hollow body; thorium oxide; argon;  
pure metal; aluminum; oxide film; thermal plasma; electron temperature;  
centralization; melting; crater; penetration(welding); circular cone;  
space environment; case study; plasma column; basic research; welding  
torch; negative electrode; weld shielding gas; weld bead

BROADER DESCRIPTORS: electrode; inert gas shielded arc welding; gas  
shielded arc welding; arc welding; electric welding; welding; bonding  
and joining; **fusion** welding; welding condition; condition; electric  
power source equipment; equipment; light alloy; nonferrous alloy; alloy  
; metallic material; solid(cubic); metal oxide; oxide; chalcogenide;  
oxygen group element compound; oxygen compound; thorium compound;  
actinide compound; transition metal compound; rare gas; element; third  
row element; metal; metallic element; 3B group element; conversion  
coating film; film(cover); membrane and film; plasma; plasma  
temperature; temperature; plasma parameter; parameter; modification;  
phase transition; morphology; cone; environment; research; torch;  
protective gas; gas; atmosphere(environment); welding material; weld  
metal; weld zone; joint(part); part

CLASSIFICATION CODE(S): WC07110T; WC07030G

4/8/5 (Item 2 from file: 94)

DIALOG(R)File 94:(c)2006 Japan Science and Tech Corp(JST). All rts.  
reserv.

02090005 JICST ACCESSION NUMBER: 94A0781129 FILE SEGMENT: JICST-E  
**Electrode Lifetimes in a Plasma Focus Soft X-Ray Source., 1994**

DESCRIPTORS: electrode; erosion(wear); plasma focus; X-ray source; soft  
X-ray; lifetime; polarity; insulating material; plasma focus device  
BROADER DESCRIPTORS: erosion(corrosion); corrosion; radiation source; X-ray  
; electromagnetic wave; wave motion; radioactive ray; property;  
material; nuclear **fusion** device; plasma device; equipment

CLASSIFICATION CODE(S): BJ02082I

4/8/6 (Item 1 from file: 103)

DIALOG(R)File 103:(c) 2006 Contains copyrighted material. All rts. reserv.

01847778 AIX-17-053214; EDB-86-171667

**Title: Dynamic strength investigation of reactor chamber elements of the  
ANGARA-5 facility**

**Title: Reports of 3. All-union conference on engineering problems of  
thermonuclear reactors. Vol. 4**

Original Title: Doklady tret'ej Vsesoyuznoj konferentsii po inzhenernym  
problemam termoyadernykh reaktorov. Tom 4

Publication Date: 1984

Major Descriptors: \*ELECTRON BEAM **FUSION** REACTORS -- ELECTRODES

Descriptors: CONICAL CONFIGURATION; DYNAMIC LOADS; ELASTICITY; IMPULSE  
APPROXIMATION; RELATIVISTIC RANGE; SHOCK WAVES; SIMULATION; SPATIAL  
DISTRIBUTION; STRAINS; THERMONUCLEAR EXPLOSIONS

Broader Terms: CONFIGURATION; DISTRIBUTION; ENERGY RANGE; EXPLOSIONS;  
MECHANICAL PROPERTIES; NUCLEAR EXPLOSIONS; TENSILE PROPERTIES;  
THERMONUCLEAR REACTORS

Subject Categories: 700208\* -- Fusion Power Plant Technology -- Inertial  
Confinement Technology

INIS Subject Categories: A1427\* -- Fusion power plant technology --  
Inertial confinement technology

? save temp

Temp SearchSave "TD195082237" stored

? logoff

26feb06 15:15:29 User276741 Session D102.4  
\$1.70 0.190 DialUnits File2  
\$0.00 3 Type(s) in Format 8  
\$0.00 3 Types  
\$1.70 Estimated cost File2  
\$1.52 0.166 DialUnits File8  
\$1.52 Estimated cost File8  
\$16.65 0.709 DialUnits File34  
\$16.65 Estimated cost File34  
\$0.46 0.133 DialUnits File94  
\$0.00 2 Type(s) in Format 8  
\$0.00 2 Types  
\$0.46 Estimated cost File94  
\$1.14 0.188 DialUnits File103  
\$0.00 1 Type(s) in Format 8  
\$0.00 1 Types  
\$1.14 Estimated cost File103  
\$6.58 0.525 DialUnits File399  
\$6.58 Estimated cost File399  
OneSearch, 6 files, 1.910 DialUnits FileOS  
\$0.53 TELNET  
\$28.58 Estimated cost this search  
\$182.83 Estimated total session cost 18.750 DialUnits

Logoff: level 05.10.03 D 15:15:29

You are now logged off

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	158	((hollow adj electrode) or (hollow adj microelectrode) or (hollow adj fiber adj electrode) or (capillary adj electrode)) and (fusion or electrofusion or (selective adj electrofusion))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:37
L2	40	L1 and (cell or liposome or proteoliposome or protoplast or (plant adj protoplast) or vesicle or egg or sperm or hybridoma)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:38
L3	10	L2 and @ad<"19990713"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:27
L4	17	L2 and @ad<"20000713"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:27
L5	11	L2 and @ad<"19990730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:37
L6	2	L2 and microchip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:35
L7	0	L4 and microchip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:32
L8	0	L5 and microchip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:33
L9	19	L2 and (electroendoosmosis or electrophoresis or poiseuille)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:37

## EAST Search History

L10	9	L4 and (electroendoosmosis or electrophoresis or poiseuille)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:35
L11	4	L5 and (electroendoosmosis or electrophoresis or poiseuille)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:40
L12	16	L2 and ((optical adj trapping) or (optical adj trap) or micropipette)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:37
L13	3	L12 and @ad<"19990730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:38
L14	3	L5 and (electroporate or electroporation or dielectrophoretic or dielectrophoresis)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:41
L15	0	L5 and (fusogenic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:42
L16	0	L5 and (hybridoma or ((membrane or lipid) adj composition) or pharmaceutical\$)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:44
L17	2	L1 and microchip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:35
L18	1537	microchip and (fusion or electrofusion or (selective adj electrofusion))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:39
L19	182	L18 and @ad<"19990730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:39

## EAST Search History

L20	52	L19 and electrode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:39
L21	1299	L18 and (cell or liposome or proteoliposome or protoplast or (plant adj protoplast) or vesicle or egg or sperm or hybridoma)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:39
L22	9235	(microchip or microarray) and (fusion or electrofusion or (selective adj electrofusion))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:47
L23	8961	L22 and (cell or liposome or proteoliposome or protoplast or (plant adj protoplast) or vesicle or egg or sperm or hybridoma)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:39
L24	493	L23 and @ad<"19990730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:47
L25	47	L24 and electrode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:39
L26	20	(microchip or microarray) and (electrofusion or (selective adj electrofusion))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:47
L27	1	L26 and @ad<"19990730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 14:47
S1	112	"4994384"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 15:57
S2	0	"4994384.pn."	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 15:57

## EAST Search History

S3	2	"4994384".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 16:06
S4	3	"4970154".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 16:15
S5	2	"6020170".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 16:18
S6	2	"6041252".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 16:22
S7	2	"6010613".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 16:23
S8	3429	(hollow adj electrode) or (hollow adj microelectrode) or (capillary adj electrode)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:06
S9	158	S8 and (fusion or electrofusion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 16:45
S10	53	S9 and @ad<"19990713"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:10
S11	39	S9 and (cell or liposome or vesicle or egg)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:08
S12	10	S11 and @ad<"19990713"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 16:32



## EAST Search History

S13	3004	(hollow adj electrode) or (hollow adj microelectrode)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 16:45
S14	122	S13 and (fusion or electrofusion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:02
S15	14	S14 and (cell or liposome or vesicle or egg)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 16:46
S16	3023	(hollow adj electrode) or (hollow adj microelectrode) or (hollow adj fiber adj electrode)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:05
S17	122	S16 and (fusion or electrofusion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:07
S18	14	S17 and (cell or liposome or vesicle or egg)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:03
S19	40	S9 and (cell or liposome or vesicle or egg or sperm or (fusion adj partner))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:07
S20	10	S19 and @ad<"19990713"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:08
S21	432	S16 and (cell or liposome or vesicle or egg or sperm or (fusion adj partner))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:22
S22	14	S21 and (fusion or electrofusion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:07

## EAST Search History

S23	3	S22 and @ad<"19990713"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:08
S24	0	S22 and @ad<"2000713"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:09
S25	5	S22 and @ad<"20000713"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:20
S26	4	S16 and microchip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:22
S27	3	S26 and (cell or liposome or vesicle or egg or sperm or (fusion adj partner))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/24 17:22
S28	1	S17 and microchip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/02/26 09:32